



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lee et al.
Serial No. : 10/669,861
Filed : September 24, 2003
Title : DIFFERENTIATION PROTEINS

Art Unit : 1636
Examiner : Unknown

MAIL STOP AMENDMENT

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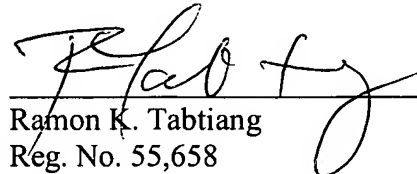
INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. The Applicants further note that application 10/314,669 is co-pending and claims priority to this application.

This statement is being filed before a first Office action on the merits. Please apply any other charge to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 19 December 2005



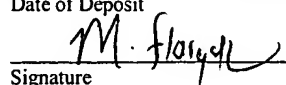
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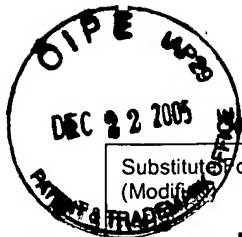
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12279-007002	Application No. 10/669,861
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Lee et al.	
		Filing Date September 24, 2003	Group Art Unit 1636

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6607882	Aug. 19, 2003	Cox, III et al.			
	AB	6,689,558	Feb. 10, 2004	Case			
	AC	6824978	Nov. 30, 2004	Cox, III et al.			
	AD	2002-0081614	June 27, 2002	Case et al.			
	AE	2002-0164575	Nov. 7, 2002	Case et al.			
	AF	2004-204345	Oct. 14, 2004	Cox, III et al.			
	AG	2005-0239203	Oct. 27, 2005	Case et al.			
	AH	2005-130304	June 16, 2005	Cox, III et al.			
	AI	2005-215502	Sept. 29, 2005	Cox, III et al.			
	AJ						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AK	WO 01/40798	June 7, 2001	WIPO				
	AL	WO 01/59450	Aug. 16, 2001	WIPO				
	AM							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AN	Bartsevich & Juliano, "Regulation of the MDR1 gene by transcriptional repressors selected using peptide combinatorial libraries", <i>Mol. Pharmacol.</i> 58:1-10 (2000)
	AO	Beerli et al. (2000) "Chemically Regulated Zinc Finger Transcription Factors," <i>The Journal of Biological Chemistry</i> , 275(42):32617-32627
	AP	Brent & Ptashne, "A eukaryotic transcriptional activator bearing the DNA specificity of a prokaryotic repressor", <i>Cell</i> 43:729-736 (1985)
	AQ	Chevray & Nathans, "Protein interaction cloning in yeast: Identification of mammalian proteins that react with the leucine zipper of Jun", <i>Proc. Natl. Acad. Sci.</i> 89:5789-5793 (1992)
	AR	Choo & Klug, "Physical basis of a protein-DNA recognition code", <i>Curr. Opin. Struct. Biol.</i> 7:117-125 (1997)
	AS	Chrast et al. (2000) "Mice trisomic for a bacterial artificial chromosome with the single-minded 2 gene (Sim2) show phenotypes similar to some of those present in the partial trisomy 16 mouse models of Down syndrome," <i>Human Molecular Genetics</i> , 9(12):1853-1864

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	AT	Corbi et al. (2000) "The artificial zinc finger coding gene 'Jazz' binds the utrophin promoter and activates transcription," <i>Gene Therapy</i> , 7(12):1076-1083
	AU	Desjarlais & Berg, "Length-encoded multiplex binding site determination: Application to zinc finger proteins", <i>Proc. Natl. Acad. Sci.</i> 91:11099-11103 (1994)
	AV	Dreier et al., "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors", <i>J. Biol. Chem.</i> 276:29466-29478 (2001)
	AW	Elrod-Erickson et al., "High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition", <i>Structure</i> 6:451-464 (1998)
	AX	Gogos et al., "Recognition of diverse sequences by class I zinc fingers: Asymmetries and indirect effects on specificity in the interaction between CF2II and A+T-rich sequence elements", <i>Proc. Natl. Acad. Sci. USA</i> 93:2159-2164 (1996)
	AY	Higashi et al. (2002) "The p53-activated Gene, <i>PAG608</i> , Requires a Zinc Finger Domain for Nuclear Localization and Oxidative Stress-induced Apoptosis," <i>The Journal of Biological Chemistry</i> , 277(44):42224-42232
	AZ	Hsu et al., "Multiple zinc finger forms resulting from developmentally regulated alternative splicing of a transcription factor gene", <i>Science</i> 257:1946-1950 (1992)
	AAA	Hudson, Jr. et al., "The complete set of predicted genes from <i>Saccharomyces cerevisiae</i> in a readily usable form", <i>Genome Res.</i> 7:1169-1173 (1997)
	ABB	Imanishi et al. (2000) "DNA-Bending Finger: Artificial Design of 6-Zinc Finger Peptides with Polyglycine Linker and Induction of DNA Bending," <i>Biochemistry</i> , 39(15):4383-4390
	ACC	Isalan et al., "A rapid, generally applicable method to engineer zinc fingers illustrated by targeting the HIV-1 promoter", <i>Nat. Biotechnol.</i> 19:656-660 (2001)
	ADD	Jamieson et al., "In vitro selection of zinc fingers with altered DNA-binding specificity", <i>Biochemistry</i> 33:5689-5695 (1994)
	AEE	Kamiuchi et al. (1998) "Artificial Nine Zinc-Finger Peptide with 30 Base Pair Binding Sites," <i>Biochemistry</i> , 37(39):13827-13834
	AFF	Lee et al (2000) "Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells," <i>Nat Biotech</i> 18:675-679
	AGG	Liu et al., "Validated zinc finger protein designs for all 16 GNN DNA triplet targets", <i>J. Biol. Chem.</i> 277:3850-3856 (2002)
	AHH	Niwa et al. (2000) "Quantitative expression of Oct-3/4 defines differentiation, dedifferentiation or self-renewal of ES cells," <i>Nat Genet</i> 24:372-376
	AII	Pabo et al., "Design and selection of novel Cys ₂ His ₂ zinc finger proteins", <i>Annu. Rev. Biochem.</i> 70:313-340 (2001)
	AJJ	Pavletich & Pabo, "Zinc finger-DNA recognition: Crystal structure of a Zif268-DNA complex at 2.1 Å", <i>Science</i> 252:809-817 (1991)
	AKK	Phillips et al. (2000) "The Genetic Program of Hematopoietic Stem Cells," <i>Science</i> 288:1635-1640
	ALL	Ren et al., "PPAR γ knockdown by engineered transcription factors: exogenous PPAR γ 2 but not PPAR γ 1 reactivates adipogenesis", <i>Genes & Dev.</i> 16:27-32 (2002)
	AMM	Reubinoff et al. (2001) "Neural progenitors from human embryonic stem cells," <i>Nat Biotech</i> 19:1134-1140

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	ANN	Segal <i>et al.</i> , "Toward controlling gene expression at will: Selection and design of zinc finger domains recognizing each of the 5'-GNN-3' DNA target sequences", <i>Proc. Natl. Acad. Sci.</i> 96:2758-2763 (1999)
	AOO	Sera & Uranga, "Rational design of artificial zinc-finger proteins using a nondegenerate recognition code table", <i>Biochemistry</i> 41:7074-7081 (2002)
	APP	Taylor <i>et al.</i> , "Designing zinc-finger ADR1 mutants with altered specificity of DNA binding to T in UAS1 sequences", <i>Biochemistry</i> 34:3222-3230 (1995)
	AQQ	Wagner et al. (1999) "Induction of a midbrain dopaminergic phenotype in Nurr1-overexpressing neural stem cells by type 1 astrocytes," <i>Nat Biotech</i> 17:653-659
	ARR	Wang & Reed, "Molecular cloning of the olfactory neuronal transcription factor Olf-1 by genetic selection in yeast", <i>Nature</i> 364:121-126 (1993)
	ASS	Wolfe <i>et al.</i> , "Beyond the "recognition code": Structures of two Cys ₂ His ₂ zinc finger/TATA box complexes", <i>Structure</i> 8:717-723 (2001)
	ATT	Wolfe <i>et al.</i> , "Analysis of zinc fingers optimized via phage display: Evaluating the utility of a recognition code", <i>J. Mol. Biol.</i> 285:1917-1934 (1999)
	AUU	Zhang <i>et al.</i> , "Synthetic zinc finger transcription factor action at an endogenous chromosomal site: Activation of the human erythropoietin gene", <i>J. Biol. Chem.</i> 275:33850-33860 (2000)
	AVV	Zhang et al. (2001) "In vitro differentiation of transplantable neural precursors from human embryonic stem cells," <i>Nat Biotech</i> 19:1129-1133

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